



February 24, 2020

Mr. Brian Mitchell  
EPA Project Manager  
U.S. Environmental Protection Agency, Region 7  
11201 Renner Boulevard  
Lenexa, Kansas 66219

**Subject:           Quality Assurance Project Plan, Addendum No. 1**  
**Downtown Wells Site and Former Electrolux Site, Jefferson, Iowa**  
**U.S. EPA Region 7 START 5, Contract No. 68HE0719D0001**  
**Task Order No. 19F0086.003**  
**Task Monitor: Brian Mitchell, EPA Project Manager**

Dear Mr. Mitchell:

Tetra Tech, Inc. is submitting the attached Addendum No. 1 to the previously approved Quality Assurance Project Plan prepared by Tetra Tech, Inc. and (dated October 10, 2019) for the Downtown Wells Site and Former Electrolux Site. If you have any questions or comments, please contact me at (816) 412-1770.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ryan Slanczka'.

Ryan Slanczka  
START, Project Manager

A handwritten signature in blue ink, appearing to read 'Ted Faile'.

Ted Faile, PG, CHMM  
START Program Manager

Enclosure

ADDENDUM NO. 1

QUALITY ASSURANCE PROJECT PLAN  
PRELIMINARY ASSESSMENT AND SITE INVESTIGATION  
AT THE DOWNTOWN WELLS SITE AND FORMER ELECTROLUX SITE  
JEFFERSON, IOWA

Superfund Technical Assessment and Response Team (START) 5  
Contract No. 68HE0719D0001, Task Order No. 19F0086.003

Prepared For:

U.S. Environmental Protection Agency  
Region 7  
Superfund Division  
11201 Renner Boulevard  
Lenexa, Kansas 66219

February 24, 2020

Prepared By:

Tetra Tech, Inc.  
415 Oak Street  
Kansas City, Missouri 64106  
(816) 412-1741

APPROVED BY:



Ryan Slanczka, START Project Manager

02/24/2020

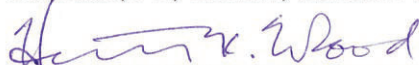
Date



Ted Faile, PG, CHMM, START Program Manager

02/24/2020

Date



Kathy Homer, START Quality Assurance Manager

2/24/2020

Date

**BRIAN MITCHELL**

Digitally signed by BRIAN MITCHELL  
Date: 2020.03.10 15:54:30 -05'00'

Brian Mitchell, EPA Region 7 Project Manager

Date

Diane Harris, EPA Region 7 Quality Assurance Manager

Date

**ADDENDUM NO. 1**  
**QUALITY ASSURANCE PROJECT PLAN**  
**DOWNTOWN WELLS SITE AND FORMER ELECTROLUX SITE**  
**JEFFERSON, IOWA**

This document is an addendum to the Quality Assurance Project Plan (QAPP) dated October 10, 2019, prepared by Tetra Tech, Inc. (Tetra Tech) for the Downtown Wells Site and Former Electrolux Site (site) in Jefferson, IA. This addendum addresses the collection of groundwater samples, if available, from monitoring wells MW-1 and -2.

As requested by EPA, as many as two groundwater samples will be collected from monitoring wells MW-1 and -2 by application of micro-purge (“low-flow”) sampling methodology. This consists of purging groundwater directly from the screened portion of the well at a very low flow rate (less than [ $<$ ] 200 milliliters per minute [mL/min]). Samples from monitoring wells will be collected via a QED sample Pro 1.75-inch Bladder Pump, through bonded 0.25-inch low density polyethylene (LDPE) tubing and through a Horiba U-50 (or similar) multi-parameter water quality meter. The water quality meter will provide measurements of water quality parameters such as temperature, pH, conductivity, dissolved oxygen, and turbidity. Water quality parameters will be recorded at regular intervals (approximately every 4 minutes) until the parameters have stabilized. Stabilization is accomplished when three consecutive measurements (e.g., three measurements of dissolved oxygen) are within 10 percent.

Groundwater samples will be analyzed only for VOCs, and will be collected in three 40-ml vials preserved with HCl. Samples will be collected in laboratory-prepared sample containers, labeled, and placed in an ice-filled cooler kept at temperatures between 2 and 6 degrees °C. Samples will be properly documented on the chain of custody, packaged, and delivered to Pace Analytical in Lenexa, Kansas.

QC samples to be collected during the sampling investigation include one groundwater field duplicate sample. The field duplicate sample will be collected to assess precision of field sample collection and laboratory analysis procedures. The field duplicated sample will be collocated with an original sample. Pace Analytical will analyze the field duplicate sample applying the same method and for the same analytes as the collocated original sample. The field duplicate sample will be preserved with HCl, collected in laboratory-prepared containers, labeled, and placed in an ice-filled cooler kept at temperatures between 2 and 6 degrees °C.